

Patent claims

1. Low voltage circuit breaker with a contact system for a principal current and an arc extinction chamber in which case an arc transmitting element is disposed between the contact system for the principal current and the arc extinction chamber, characterized in that the arc transmitting element (44) comprises at least one arc conductive element (46) which makes it possible to direct said arc in a defined manner to the arc extinction chamber (10).
2. Low voltage circuit breaker according to claim 1, characterized in that at least one arc conductive element (46) extends at an angle to an imagined vertical line (58) of the arc transmitting element (44) away from an edge zone in the direction of a middle zone.
3. Low voltage circuit breaker according to one of the previous claims, characterized in that the arc conductive element (46) has at least one running edge (54) running basically parallel to the arc transmitting element (44).
4. Low voltage circuit breaker according to one of the previous claims, characterized in that at least one running edge (54) can be formed by a sharp-edged transition (62) of a step (60).
5. Low voltage circuit breaker according to one of the previous claims, characterized in that the arc conductive element (46) particularly has several running edges (54) running at different angles to the imagined vertical line (58).
6. Low voltage circuit breaker according to one of the previous claims, characterized in that the arc conductive element (46) is non-positively connected to the arc transmitting element (44).

7. Low voltage circuit breaker according to claim 6, characterized in that the arc conductive element (46) is embodied as a crown-shaped stamped part.

8. Low voltage circuit breaker according to claim 6, characterized in that the arc conductive element (46) is formed from at least one section of a wire, particularly a steel wire.

9. Low voltage circuit breaker according to one of the previous claims, characterized in that at least one arc conductive element (46) is embodied as a profile part stamped from the plane of the arc transmitting element (44).

10. Low voltage circuit breaker according to one of the previous claims, characterized in that at least one extinction sheet (42) or end plate (43) of a stack of extinction sheets (41) serves as the arc transmitting element.